

Honeywell

Weather Forecaster with Dual Projection

(PCR426W)
USER MANUAL

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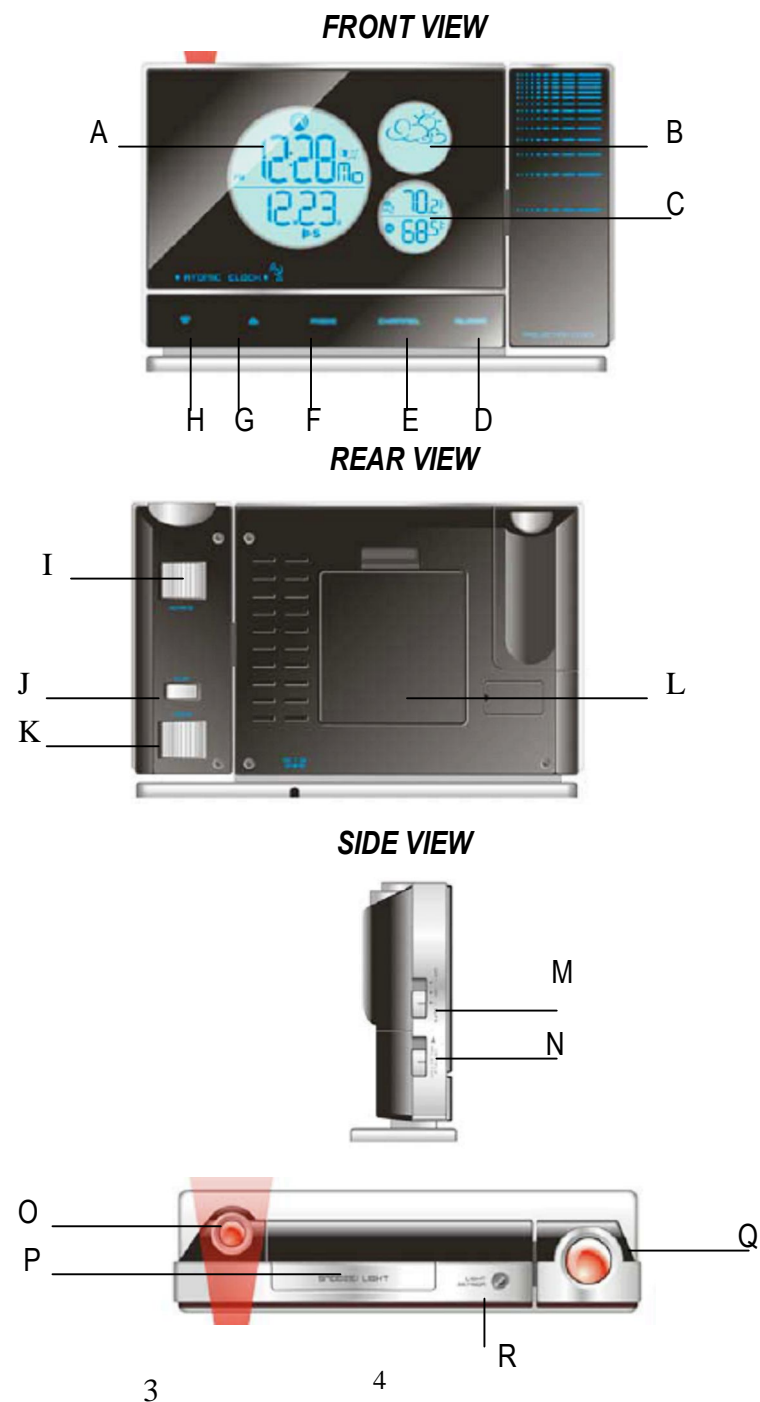
INTRODUCTION

Thank you for selecting the Honeywell Weather Forecaster with Dual Projection. This device delivers weather monitoring features and precise time keeping with ability of projecting the information onto the wall or the ceiling.

In this package you will find:

- One Weather Forecaster with Dual Projection (receiver)
- One remote sensor (transmitter) TS13C
- One AC/DC Adapter
- One User Manual

Please keep this manual handy as you use your new item. It contains practical step-by-step instructions, as well as technical specifications and precautions you should know.



FRONT VIEW

A. CLOCK WINDOW

Displays atomic time, alarms and calendar

B. FORECAST WINDOW

Displays weather forecast

C. TEMPERATURE WINDOW

Displays indoor and remote outdoor temperature

D. ALARM button

- Toggles between the calendar display and three alarm modes
- Programming of alarms
- Activates or deactivates available alarms

E. CHANNEL selector

- Allows selecting different remote channel reading
- Allows displaying minimum and maximum temperature readings when used with **DOWN (▼)** button

F. MODE button

- Toggles between clock display modes - time with seconds or time with day of the week
- Activates manual clock programming mode

G. UP (▲) button

- Increases all function parameters
- Activates US Time Zone selection mode
- Activates atomic time signal receiving function when used along with **DOWN (▼)** button

H. DOWN (▼) button

- Decreases all function parameters
- Activates the remote temperature signal search function
- Activates the atomic time signal receiving function when used along with **UP (▲)** button

REAR VIEW

I. ROTATE knob

Allows rotating of the projected image

J. FLIP button

Flips the projected image 180° degrees

K. FOCUS knob

Allows adjusting of the sharpness of the projected image

L. BATTERY COMPARTMENT

Accommodates 4 (four) UM-3 or AA 1.5V alkaline batteries

SIDE VIEW

M. LIGHT SENSOR switch

Allows selecting of the LCD backlight modes – **ON**, **OFF**, and **AUTO**

N. CONTINUOUS PROJECTION switch

Enables continuous projection of the time and remote temperature

O. FORECAST PROJECTOR

Projects weather forecast

P. SNOOZE / LIGHT button

Activates LCD backlight, snooze and projection for 5 seconds

Q.TIME/TEMPERATURE PROJECTOR

Projects current time and remote temperature

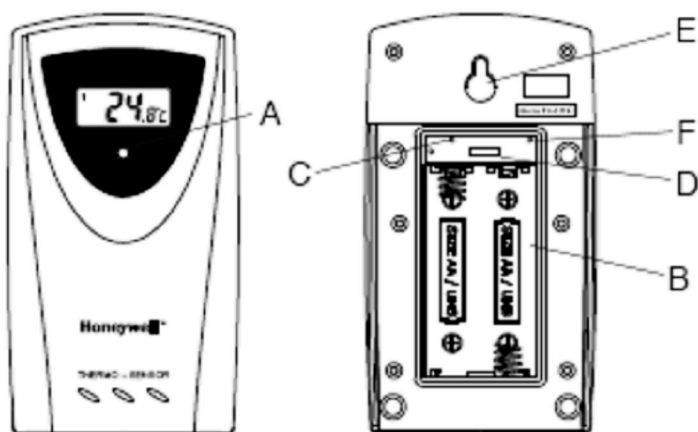
R. LIGHT SENSOR

Detects environmental light conditions

REMOTE SENSOR

FEATURES

- Transmits remote temperature to the main unit via radio signal
- 100 feet (30 meters) transmission range without interference
- LCD display of measured temperature
- Selects one of three transmission (3) channels
- Selects temperature display in either Celsius or Fahrenheit
- Case can be wall mounted using built-in hanger



A. LED INDICATOR

- Flashes once when transmitting a reading to the main unit.
- Flashes twice when battery power is low.

B. BATTERY COMPARTMENT

Holds two AA-size batteries

C. RESET

Resets all readings

D. CHANNEL switch

Selects the desired transmission channel

E. WALL-MOUNT RECESSED OPENING

Keeps the remote sensor on the wall

F. °C/ °F selector

Selects the temperature display in Celsius or Fahrenheit

BEFORE YOU BEGIN

- We recommend using alkaline batteries for the remote sensor and main unit when temperatures are above 32°F (0°C). We recommend using lithium batteries for the remote sensor when temperatures are below 32°F (0°C).
- Avoid using rechargeable batteries. (Rechargeable batteries cannot maintain correct power requirements).
- **ALWAYS** install batteries in the **remote** sensor **before** the main unit.
- Insert batteries matching the polarity in the battery compartment
- Press **RESET** after each battery change with a paper clip or wire.
- Remove protective plastic screen from LCD display (if any).
- During an initial setup, place the main unit close to the remote sensor.
- After reception is established (the remote temperature will appear on the main unit's display), position the remote sensor and the main unit within the effective transmission range of 100 feet (30 meters).
- The remote sensor can be placed **indoors or outdoors**, **depending on the area where the temperature is intended to be measured**. If you intend measuring outdoor temperature, place temperature sensor outdoors
- The main unit must be placed indoors.

NOTE:

1. Avoid pressing any buttons on the main unit ***before the remote temperature is displayed.***
2. The effective operating range may be influenced by the surrounding building materials and how the receiver and transmitter are positioned.
3. Place the remote sensor so that it faces the main unit (receiver), minimizing obstructions such as doors, walls, and furniture.
4. Though the remote sensors are weather-resistant, they should be placed away from direct sunlight, rain or snow. The best suggested location for the remote sensor for outdoors is under the eave on the north side of the building.

NOTE: When the temperature falls below freezing, the batteries in the outdoor remote sensor may have reduced volt age supply and a shorter effective range. We recommend using lithium batteries at temperatures of 32°F (0°C) and below.

BATTERY INSTALLATION

REMOTE SENSOR


NOTE: Install the batteries; select the channel and temperature in C° or F° before mounting the remote sensor.

- Remove the screws from the battery compartment with a small Phillips screwdriver.
- Set the channel. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Install 2 “AA” size alkaline batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure the remote sensor in the desired location.

MAIN UNIT

- Open the battery compartment door.
- Install 4 batteries (UM-3 or “AA” size 1.5V) matching the polarity as shown in the battery compartment.
- Replace the battery compartment door.

LOW BATTERY WARNING

A low-battery indicator [] will appear on the indoor or remote temperature reading line of the main unit warning that the corresponding batteries need replacement.

GETTING STARTED

After batteries are installed; remote sensor will transmit temperature readings at 45 second intervals. It may take up to two minutes to receive the initial readings. Upon successful reception, remote temperature will appear in the temperature window below the weather forecast on the main unit's display (the default remote channel is channel one). The main unit will automatically update readings.

After communication between the main unit and remote sensor has been established, secure the remote sensor in the desired location.

If no signal is received from the remote sensor within two minutes, dashes [- - -] will be displayed. Press and hold the main unit **DOWN (▼)** button for two seconds to initiate another signal search for the remote.

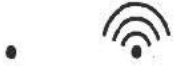

REMOTE AND INDOOR TEMPERATURES WINDOW

The temperature window default display shows the indoor and remote temperature information (remote temperature is on the top, and indoor temperature is on the bottom line). The **IN** icon indicates that the unit is displaying the indoor readings.

The remote temperature for channel two and three can be recalled by pressing **CHANNEL** button.

The wave (reception) icon is located above the remote channel number and indicates the reception status from the remote sensor.






The following three types of reception status may be displayed:

The unit is in searching mode.	
Temperature reading is securely registered.	
No signal is detected.	- - -

NOTE: If the indoor or remote temperature goes above or below operating specification range, the main display will show dashes “- - -”

WEATHER FORECAST WINDOW

The Weather Forecaster is capable of detecting atmospheric pressure changes. Based on collected data, it forecasts the weather for the next 12 to 24 hours.

When the display shows...					
Forecast is...	Sunny	Partly Cloudy	Cloudy	Light Rain	Heavy Rain

NOTE: The weather forecast accuracy is approximately 70%.

Display shows forecasted, not current conditions. The **SUNNY** icon indicates clear weather, even when displayed during the night-time.

MAXIMUM AND MINIMUM READINGS

The maximum and minimum record of the indoor and remote temperatures will be automatically stored in the memory of the main unit.

To display the minimum or maximum temperature reading press **CHANNEL** and **DOWN (▼)** buttons simultaneously.

If no button is pressed for the next 15 seconds, the unit will return to the current temperature display.

To clear the memory, press and hold **CHANNEL** button for two seconds and all previously stored readings will be erased.

LOST COMMUNICATION

If the main unit display line for the remote sensor reading goes blank,

press and hold **DOWN (▼)** button for 2 seconds to begin a new signal search. If the signal still isn't received, please make sure that:

- The remote sensor is in its proper location.
- The distance between main unit and remote sensor(s) is not over 100 feet (30meters).
- The path between units is clear of obstacles. Shorten the distance if necessary.
- Fresh batteries are installed correctly in both remote sensor and main unit.

If there is no reception, perform the following steps:

- Bring the main unit and remote sensor close together.
- Remove four (4) small screws from the back of the remote sensor with small Phillips screwdriver, and open the battery compartment.
- Remove the batteries from the battery compartment and reinstall them in the same manner. Remote sensor LED indicator will flash showing transmission of the signal.
- Remove the batteries from the main unit and reinstall them in the same manner.
- Set the main unit **CHANNEL** to the same channel set on the remote sensor. When the transmission is successfully received the remote temperature will appear on the main unit's display.

TRANSMISSION COLLISION

Signals from the other household devices such as wireless doorbells, home security systems, and entry control, may interfere with this product or cause temporary reception interruption. This is normal and will not

affect the general performance of the product. The transmission and reception of the temperature readings will resume once the interference subsides.

WWVB RADIO CONTROLLED TIME

The NIST (National Institute of Standards and Technology) radio station (WWVB) is located in Ft. Collins, Colorado. It transmits an exact time signal continuously throughout the most of the continental United States. The Weather Forecaster receives the WWVB signal through the internal antenna from up to 2,000 miles away. The radio controlled clock will search for the atomic time signal. Due to signal strength reception can be limited during the daylight hours.

The WWVB tower icon on the main unit's display will flash indicating a radio signal reception from the WWVB station. If the tower icon is not fully lit, or if the time and date are not set automatically, please consider the following:

- During night-time hours, atmospheric disturbances are reduced and radio signal reception may improve. A single daily reception is sufficient to keep the clock accuracy within 1 second.
- Make sure the unit is placed at 8 feet (2 meters) away from interference sources: TV, computer monitor, microwave, etc.
- The received signal may be weakened within metal or concrete wall rooms such as basements or office buildings. Place the Projection Clock near the window for best reception.

ATOMIC CLOCK

Immediately after establishing communication between the main unit and remote sensor, the atomic time signal receiver will open and start to

search for the atomic time signal. It usually takes between 5-8 minutes.

NOTE: Do not press any buttons on the main unit during auto search as it may interrupt product's operation, and you will need to start set up procedure again.

Once the atomic time signal is received, the date and time will be set automatically, and the [🌐] icon will appear.

NOTE: It is necessary to set your Time Zone, having in mind that the default zone is a Pacific Standard Time (PST). (Refer to **MANUAL SETTINGS** section)

If the time signal has not been received in 8 minutes, you may use the **MODE** button to set the time and date manually. (Refer to the **MANUAL SETTINGS** section).

After the clock is set manually, place the Weather Forecaster by the window for the better reception. The atomic clock receiver is programmed that it will continue to search for the atomic time signal daily for every hour between 1:00 am and 4:30 am.

Once the time signal has been successfully received, the time and date will be updated automatically.

CLOCK AND CALENDAR DISPLAY WINDOW

The Weather Forecaster with Dual Projection displays current time in two display modes – in **hour-minutes-seconds** and in **hour-minutes-day**. The date is displayed in month-date format below the current time with the day of the week and US map.

MANUAL SETTINGS

It is necessary to set the desired **TIME ZONE**.

TIME ZONE

- Press **MODE** button so that the **Day of the Week** abbreviation is displayed to the right of the time; for example: **pm 2:37tu**
- Select the Time Zone by pressing and holding the “▲” or **UP** button for 3 seconds.
- Keep holding “▲” or **UP** button until the desired US Time Zone (Pacific, Mountain, Central or Eastern) is highlighted on the display's US map, located to the right of the time display and above the day of the week.
- Release the “▲” or **UP** button. The Time Zone is set.

CLOCK

- Press and hold **MODE** button for 3 seconds: the year will flash. Press **UP** (▲) or **DOWN** (▼) to change flashing digits.
- After the year is set, press **MODE** button again to confirm and move to the next parameter.
- Continue setting month, date, hour, minutes, language for the day of the week and temperature in Fahrenheit or Celsius.
- Press **MODE** for the last time to return to the time of day with seconds, after the last parameter is set.

CLOCK ALARMS

The Weather Forecaster with Dual Projection has two time alarms – Weekday alarm (**W**) and Single day alarm (**S**) - and one Ice Warning Alarm (**PRE-AL**).

- If **Weekday** alarm is activated, it will sound at the set time and the alarm icon will flash Mondays through Fridays.
- If **Single** day alarm is activated, it will sound at the set time and the alarm icon will flash only for this specific day and will not activate on subsequent days.
- If **Ice Warning Alarm** is activated, it will sound at the set time

and alarm icon will flash once the remote temperature for Channel One (1) will reach 32°F(0°C) and below.

NOTE: Ice Warning Alarm can be set only if one or both - Weekday or Single alarm are programmed.

SETTING THE WEEKDAY (W) AND SINGLE DAY(S) ALARMS

- Press **ALARM ON/OFF** button once to enter into the alarms setting mode. The default alarm is a Weekday alarm (W). The abbreviation “**OFF**” with a letter “**W**” next to it will be displayed, if the alarm has not been set previously.
- Press and hold **ALARM ON/OFF** button for two seconds. The hour digit will flash.
- Enter the hour using **UP (▲)** or **DOWN (▼)**.
- Press **ALARM ON/OFF** again. The minute digits will flash.
- Enter the minutes using **UP (▲)** or **DOWN (▼)**.
- Press **ALARM ON/OFF** button again to confirm and the weekday alarm time will be set.
- Set **Single** day alarm if desired in the same manner.

SETTING THE ICE WARNING ALARM (PRE-AL)

If Weekday or Single day alarm is set, the Ice Warning Alarm can be programmed.

- Press **ALARM ON/OFF** button once to enter into the Ice Warning Alarm setting mode. The abbreviation “**OFF**” with a “**PRE-AL**” next to it will be displayed.
- Press and hold **ALARM ON/OFF** button for two seconds. The “**30**” number will flash, meaning that if selected, the alarm will sound 30 minutes earlier than the Week day or Single alarm.
- Select the desired Ice Warning Alarm interval in 15 minutes

increments between 15 and 90 minutes, using **UP (▲)** or **DOWN (▼)** buttons

- Press **ALARM ON/OFF** button again to confirm and exit from the alarm setting mode.

ACTIVATING THE ALARM

- Press **ALARM ON/OFF** button to enter into the alarms mode.
- Press **UP (▲)** to activate or **DOWN (▼)** to deactivate desired
- If alarms are activated, the corresponding icons **W**, **S** or **PRE-AL** will be displayed.

SNOOZE

When any alarm sounds, press the **SNOOZE/LIGHT** button to temporarily stop the alarm. The alarm sound will resume in five minutes. If the alarm is not disabled after that, it will sound for four more minutes and then will stop by itself.

PROJECTION

The Weather Forecaster is capable of projecting images for a short period, as well as continuously. This requires both batteries and power adapter.

TIME AND REMOTE TEMPERATURE PROJECTION

- Press **SNOOZE/LIGHT** button once to project the current time and the remote temperature image for five seconds.

A digital display showing the time and temperature. The top line shows "PM 12:38" and the bottom line shows "89.8°F".

NOTE: The Weather Forecaster projects only Channel 1 (one) remote temperature

- Press **FLIP** button to rotate projected image 180° clockwise

Wed
8E:21
8.38
8.68°F

- Press and hold **FLIP** button for 2 seconds to change temperature information from remote to indoor

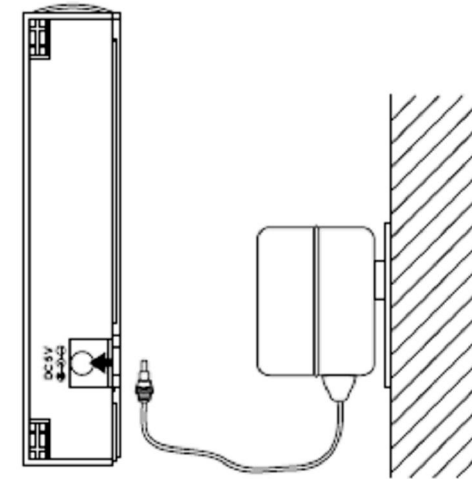
PM
12:38
77.2°F

- Press and hold **FLIP** button for 2 seconds again and the projected image will alternate between the remote and indoor temperature every 5 seconds.

NOTE: During initial product setup (remote sensor and atomic time signal search) there will be no remote temperature projected.

CONTINUOUS TIME AND TEMPERATURE PROJECTION

- Connect AC/DC adapter provided with the product to project the time and temperature image continuously.



- Slide the **CONTINUE PROJECTION** switch to the arrow direction shown on the main unit's side: the current time and temperature will be projected on the wall or the ceiling.

LIGHT SENSOR

The Weather Forecaster is equipped with the light sensor which detects the environmental light conditions. At the light conditions lower than 100 LUX, the LCD will light up automatically if AC adapter is connected. The backlight can be set using the **LIGHT SENSOR** switch modes:

AUTO – automatic LCD backlight

ON – continuous LCD backlight

OFF-- turns off LCD backlight

PRECAUTIONS

This product is engineered to give you years of satisfactory service if handled carefully. Here are a few precautions:

- Do not immerse the unit in water.
- Do not clean the unit with abrasive or corrosive materials. They

may scratch the plastic parts and corrode the electronic circuits.

- Do not subject the product to excessive force, shock, dust, temperature, or humidity, which may result in malfunctions, shorter lifespan, damaged batteries, and damaged parts.
- Do not tamper with the unit's internal components. Doing so will invalidate the warranty and may cause damage. The unit contains no user-serviceable parts.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the unit.

TROUBLESHOOTING

Check here before contacting customer service.

Issue	Symptom	Solution
Main unit	US Atomic Time signal is not received	Place unit by the window and keep it there overnight
Remote sensor	Cannot locate remote sensor	Check batteries
		Check location
		Press and hold the main unit DOWN (▼) button to search for the remote sensor signal
	Cannot change the channel	Press " RESET " after setting the channel
	Cannot change the C° to F° and back	Press " RESET " after setting C/F
	Data does not match data on the main unit	Initiate manual sensor search (Press and hold DOWN (▼) button on the main unit)

SPECIFICATIONS

Main Unit

Time

12 hour display in hh: mm format

Date format: month – day

User-selectable US Time Zone

Day of the week: User-selectable in three languages- English, Spanish or French

Dual 4 minutes crescendo alarm with snooze

Ice Warning Pre-Alarm with programmable time intervals

Weather

Indoor Temperature

Proposed operating range: -5.0°C to +50.0°C/23.0°F to 122.0°F

Temperature resolution: 0.1°C/0.2°F

User-selectable (F° or C°) temperature display

Weather Forecast in six large graphic icons

EL backlight

Low battery indicator

Projection

Focus adjustment

180° projected image rotation and flip

Light sensor detects low light conditions (100 LUX and lower)

Remote Sensor

Remote Temperature

Proposed operating range with alkaline batteries:

-20.0°C to + 70.0°C/-4.0°F to + 158°F

Proposed operating range with lithium batteries:

-38.8°C to + 70.0°C/-38.0°F to +158°F

Temperature resolution: 0.1°C/0.2°F

Low battery indicator

RF Transmission Frequency: 433 MHz

Maximum number of remote sensors: 3 (one included)

RF transmission range: Maximum 100 feet (30 meters)

Temperature transmission cycle: approximately 45 seconds

Power

Main unit: 4 AA size (UM-3) 1.5V batteries (not included)

AC/DC adapter - 7.5 V (included)

Remote Sensor: 2 AA size (UM-3) 1.5V batteries (not included)

Dimensions

Main unit: 3.25(L) x 4.5(H) x 1.25(D) inches

Remote sensor: 2.37(L) x 4(H) x 1(D) inch

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modification to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment had been tested and found to comply with the limits for a Class B Digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment, installed and used in accordance with the instructions, may cause harmful interference to radio communications.

There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to improve or correct turning the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

DECLARATION OF CONFORMITY

We

Name: Hideki Electronics, Inc.

Address: 7865 SW Mohawk, Tualatin, OR 97062

Telephone No.: 503 6128395

declare that the product

Product No.: PCR426W

Product Name: Weather Forecaster with Dual Projection

Manufacturer: Hideki Electronics Ltd.

Address: Unit 2304-06, 23/F Riley House, 88 Lei Muk Road, Kwai Chung, New Territories, Hong Kong

is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

The information above is not to be used as a contact for support or sales. Please call our customer service hot line (refer to the Standard Warranty Information) for all contacts.

STANDARD WARRANTY INFORMATION

This product is warranted from manufacturing defects for one year from the date of retail purchase. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and repair.

Note that online product registration is required to ensure valid warranty protection.

To register your product, go to our Company website at:

www.honeywellweatherstations.com. Click Online Product Registration under the Customer Service menu.

Should you require assistance with this product and its operation, please contact our Customer Service Hotline 1(866) 443 3543.

Please direct all returns to the place of the original purchase. Should this not be possible, contact Hideki Customer Service Hotline for assistance and to obtain a Return Merchandise Authorization (RMA). Returns without a return authorization will be refused. Please retain your original receipt as you may be asked to provide a copy for proof of purchase.

Hideki Electronics, Inc. reserves the right to repair or replace the product at our option.

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Honeywell International Inc. makes no representations or warranties with respect to this product.

All user manual contents and information are subject to change.

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